

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A painting apparatus comprising:  
an outer arm adapted for use with a painting robot, said arm having a housing formed of a non-conductive material;  
a color changer mounted on an external to surface of said housing, said color changer adapted to be connected to a paint supply;  
a paint canister mounted inside said housing; and  
a paint transfer line continuously connecting said color changer to an interior of said paint canister for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting.

2. (Currently Amended) The apparatus according to Claim 1 wherein said housing is formed of Lauramid a polyamide material.

3. (Original) The apparatus according to Claim 1 wherein said paint transfer line is formed of an electrically insulating material.

4. (Original) The apparatus according to Claim 1 wherein said paint transfer line is formed of an FEP material.

5. (Currently Amended) The apparatus according to Claim 1 wherein said paint canister is positioned adjacent a side wall of said housing opposite said one side color changer.

6. (Original) The apparatus according to Claim 1 including a canister manifold connected between said paint canister and said paint transfer line.

7. (Original) The apparatus according to Claim 1 including a wrist attached to said arm, said wrist having a wrist housing formed of an electrically insulating material and said wrist being adapted to mount a paint applicator.

8. (Original) The apparatus according to Claim 1 including a piston ram mounted in said housing and being connected to said paint canister for controlling a flow of the paint into and out of said paint canister.

9. (Original) The apparatus according to Claim 8 wherein said piston ram includes a piston releasably attached to a ram body by a ram locking key.

10. (Original) The apparatus according to Claim 8 including a canister quick disconnect for releasably attaching said paint canister to said piston ram.

11. (Original) The apparatus according to Claim 10 wherein said canister quick disconnect includes convex locking means on said piston ram releasably engaged with concave locking means on said paint canister.

12. (Original) The apparatus according to Claim 8 wherein said piston ram includes a ball screw and cooperating ball screw nut and including a drive motor connected to said ball screw for actuating said piston ram.

13. (Currently Amended) A painting apparatus comprising:  
an arm adapted for use with a painting robot;  
a paint canister mounted inside said arm;  
a piston ram mounted inside said arm and having a ram extending into said paint canister  
connected to a piston movable inside said paint canister; and  
a canister quick disconnect releasably attaching said paint canister to said piston ram.

14. (Original) The apparatus according to Claim 13 wherein said piston ram includes a ram body and said piston is releasably attached to said ram body by a ram locking key.

15. (Original) The apparatus according to Claim 13 wherein said canister quick disconnect includes convex locking means on said piston ram releasably engaged with concave locking means on said paint canister.

16. (Original) The apparatus according to Claim 13 wherein said piston ram includes a ball screw and cooperating ball screw nut and including a drive motor connected to said ball screw for actuating said piston ram.

17. (Original) The apparatus according to Claim 13 including a drive motor connected to said piston ram for moving said piston in said paint canister wherein a torque generated by said drive motor represents a pressure being applied to said piston by paint in said paint canister.

Claims 18-21 (Cancelled)

22. (New) A painting apparatus comprising:

an outer arm for a painting robot, said arm having a housing formed of a non-conductive material;

a color changer outside said housing, said color changer adapted to be connected to a paint supply;

a paint canister mounted inside said housing; and

a paint transfer line continuously connecting said color changer to an interior of said paint canister for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting.

23. (New) The apparatus according to Claim 22 wherein said housing is formed of a polyamide material.

24. (New) The apparatus according to Claim 22 wherein said paint transfer line is formed of an electrically insulating material.

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25. (New) The apparatus according to Claim 22 including a pig removably inserted in said paint transfer line and being slidingly moveable in said paint transfer line.

26. (New) A painting apparatus comprising:

an arm for a painting robot, said arm having a housing formed of a non-conductive material and an outer end; and

a wrist having one end attached to said outer end of said arm, said wrist being formed of a non-conductive material and having an opposite end for mounting a paint applicator.

27. (New) The apparatus according to Claim 26 including a paint canister mounted inside said housing.

28. (New) The apparatus according to Claim 27 including a paint transfer line continuously connecting an interior of said paint canister to a color changer for transferring paint from said color changer to said interior of said paint canister and providing electrostatic isolation of said paint canister from said color changer during use of said paint canister for painting.

29. (New) The apparatus according to Claim 28 wherein said color changer is mounted on an external surface of said housing.

30. (New) The apparatus according to Claim 28 wherein said color changer is mounted outside said housing.

31. (New) The apparatus according to Claim 28 including a pig removably inserted in said paint transfer line and being slidingly moveable in said paint transfer line.